PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY					/-			
To: DONALD J. FIRCA, ESQ.			PC ⁷	Γ		•		
ROETZEL & ANDRESS	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND							
222 SOUTH MAIN STREET	THE IN	TERNATION	DNAL SE	ARCH REPO	NATIONAL			
AKRON, OH 44308	THE WRIT	JEN OPH	OPTIV O	R THE DEC	LARATION			
	SEARCHI							
			PCT Rule		DOCKE	TED		
•	Date of mailir (day/month/ye		الل 4	L 2005	Jul 19	2005		
Applicant's or agent's file reference 089498-0474PCT	FOR FURTHER ACTION See paragraphs 1 and 4 be					-hw=		
International application No.	International filing date							
PCT/US04/34274	(day/month/year) 18 October 2004 (18.10.2004)					-{		
Applicant THE UNIVERSITY OF AKRON								
The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.								
Filing of amendments and statement under Article 19. The applicant is entitled, if he so wishes, to amend the cla	: aims of the interna	ational applic	eation (see F	tule 46):				
When? The time limit for filing such amendments is	s normally two mo	onths from th	e date of tra	nsmittal of the	international	1		
search report. Name of Signalus to the International Bureau of WIPO, 34 chemin des Colombettes								
Vinere: Discust to the commencement of the com								
The second sections of the section of the sec	-h recort will be	ectablished :	and that the	declaration und	er	-		
The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.								
With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:								
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's								
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.								
4. Reminders			will be w	ublished by th	e International			
Shortly after the expiration of 18 months from the priority data, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the service viciam, must regar the international Bureau as provided in Rules 90bir.1 and 90bir.3, respectively, before the completion of the service viciam, must regar the international Bureau as provided in Rules 90bir.1 and 90bir.3, respectively, before the completion of the service vicial regardance of the provided of								
technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the								
International Bureau. The International Bureau with sent a copy of seast comments would also be made available to the public but not preliminary examination report has been or is to be established. These comments would also be made available to the public but not preliminary examination report has been or is to be established. These comments would also be made available to the public but not								
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international primariant and examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date, perform the prescribed acts for the property of the priority of the priority date.								
the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.								
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Application's Same Volume II, National Chapters and the WIPO Internet site.								
Name and mailing address of the ISA/ US	Aut	horized offic	er //	.11.1	1101-	1		
Mail Stop PCT, Attn: ISA/US	Ste	phen J. Steir	191	4/1/1	W.X			
Commissioner for Patents P.O. Box 1450	1 1 1 1 1 1 1 1					-		
Alexandria, Virginia 22313-1450 Telephone No. 571-272-1700						_		
Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)				(See notes on a	accompanying st	ieel)		

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 089498-0474PCT	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.						
International application No.	International filing date (day/month/year) (Barliest) Priority Date (day/month/y 18 October 2004 (18.10.2004) 16 October 2003 (16.10.2003)						
PCT/US04/34274	18 October 2004 (18.10.2004)						
Applicant THE UNIVERSITY OF AKRON							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.							
This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.							
It is also accompani	d by a copy of each prior art document cited i	in this report.					
1. Basis of the Report	e international search was carried out on the bas	is of the international application in the					
language in which it was filed,	unless otherwise indicated under this item.						
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).							
	tide and/or amino acid sequence disclosed in the	ne international application, see Box No. I.					
	d unsearchable (See Box No. II)						
3. Unity of invention is lack							
4. With regard to the title,							
the text is approved as sub	mitted by the applicant.						
the text has been established by this Authority to read as follows:							
With regard to the abstract,							
the text is approved as sub							
the text has been establish	ed, according to Rule 38.2(b), by this Authority om the date of mailing of this international search	as it appears in Box No. IV. The applicant					
may, within one month fre	HI HE GALE OF BRIEFING OF HIS INCOMMENDED						
6. With regard to the drawings,	e published with the abstract is Figure No.						
a. the figure of the drawings to t							
	s Authority, because the applicant failed to sugg	est a figure.					
	s Authority, because this figure better characterize						
	e published with the abstract.						
I h. I \(\) I none of the figures is to b	published with the abstract.						

Form PCT/ISA/210 (first sheet) (January 2004)

International application No.

	INTERNATIONAL SEARCH REPOR	T					
PCT/US04/34274							
A. CLAS	SIFICATION OF SUBJECT MATTER						
IPC(7)	 D01F 9/12, D02G 3/00 						
US CL: 428/220, 408, 364, 367, 374, 401; 423/445R, 447.1 According to International Patent Classification (IPC) or to both national classification and IPC							
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	OS SEARCHED						
Minimum doe U.S. : 42	sumentation searched (classification system followed by 8/220, 408, 364, 367, 374, 401; 423/445R, 447.1	y classification symbo	is)				
Documentation	on searched other than minimum documentation to the	extent that such docum	nents are included in	the fields searched			
Electronic da West Electron	ta base consulted during the international search (name nic Database (USPAT/PGPUBS/EPO/JPO/Derwent)	of data base and, whe	re practicable, search	terms used)			
C. DOC	JMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where a	propriate, of the relev	ant passages	Relevant to claim No.			
X	US 6,346,136 B1 (CHEN et al) 12 February 2002 (12	2.02.2002), column 1,	liunes 5-10, col. 3,	1-4, 7, 8, 10-15 and 21			
Y	lines 1-35).		16				
x	X US 6,432,866 B1 (TENNENT et al) 13 August 2002 (13.08.2002), column 4, lines 48-64, column 5, lines 1-8, col. 6, lines 1-66.			1, 2, 4, 7-15, 17, 18, 22 23-28 and 32			
Y	column 5, lines 1-8, col. 6, lines 1-66.						
				3, 16 and 19			
				ļ			
Further	documents are listed in the continuation of Box C.		family annex.				
	pecial categories of cited documents:	"T" Inter docum	ent published after the inte t in conflict with the applic	mational filing date or priority ation but cited to understand the			
"A" documen	defining the general state of the art which is not considered to be of	principle or	theory underlying the inve	ntion			
particular	televance	"X" document o	f particular relevance; the o	laimed invention cannot be			
"E" earlier ap	plication or patent published on or after the international filing date	considered	novel or cannot be conside scurrent is taken alone	red to involve an inventive step			
"L" documen	t which may throw doubts on priority claim(s) or which is cited to						
establish	the publication date of another citation or other special reason (as	"Y" document o	f particular relevance; the o	staimed invention cannot be when the document is combined			
specified.) t referring to an oral disclosure, use, exhibition or other means	with one or	more other such document person skilled in the art	s, such combination being			
"P" document	t published prior to the international filing date but later than the late claimed	"&" document member of the same patent family					
	ctual completion of the international search	Date of mailing of the international search report					
27 June 2005	5 (27.06.2005)	Authorized officer	7/1	111			
Name and m	ailing address of the ISA/US il Stop PCT, Attn: ISA/US		(duch)	1/10/1			
	mmissioner for Patents	Stephen J. Stein					
P.C	Roy 1450	Telephone No. 571-272-1700					
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230							
1 4 4 CONTINUE 14 C							